

Gencore version 4.5
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OM protein - protein search, using sw model.

Run on:

March 1, 2001, 15:52:49 ; Search time 32.86 Seconds
(without alignments)
123.982 Million cell updates/sec

Title: US-09-331-631A-22_COPY_25_84
Perfect score: 350
Sequence: 1 EDDNNHHGGHKSQCVRRC EKRQERSRHEADDRSGEGSS 60
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched:

195891 seqs, 6790655 residues

Total number of hits satisfying chosen parameters: 195891

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR 66.4
1: pir1;*
2: pir2;*
3: pir3;*
4: pir4;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result no.	Score	Query	Match length	DB ID	Description
1	350	100.0	122	2	C53234
2	350	100.0	582	2	B52334
3	346	98.9	540	2	S21825
4	346	98.9	573	2	A53234
5	342	97.7	407	2	T02258
6	303	86.6	236	2	T01662
7	129.5	37.0	637	2	S35221
8	96.5	27.6	165	2	T20556
9	81.5	23.3	605	2	S03398
10	78	22.3	494	2	A48133
11	74	21.1	971	2	T24866
12	71.5	20.4	997	2	T28872
13	71	20.3	699	2	A54660
14	70	20.0	144	2	F71446
15	70	20.0	239	2	A42566
16	69.5	19.9	241	2	S44893
17	69.5	19.9	361	2	T33008
18	69.5	19.9	549	2	T17525
19	69	19.7	407	1	EDBBQ3
20	69	19.7	588	1	FWCWRB
21	68.5	19.6	1407	1	T14108
22	68.5	19.6	2251	2	B54972
23	68.5	19.6	2270	2	A55972
24	67.5	19.3	466	2	T8575
25	67.5	19.3	1196	2	T11108
26	67	19.1	385	2	T19201
27	67	19.1	509	2	S03059
28	67	19.1	566	2	S22477
29	67	19.1	897	2	T21688

Query: EDDNNHHGGHKSQCVRRCEDPWHORPRCFCREBERERKQERSRHEADDRSGEGSS
Match: 1 EDDNNHHGGHKSQCVRRCEDPWHORPRCFCREBERERKQERSRHEADDRSGEGSS
Best Local Similarity: 100.0%; Score: 350; DB: 2; Length: 122;
Matches: 60; Conservativeness: 100.0%; Pred. No.: 6; 5e-29; Mismatches: 0; Indels: 0; Gaps: 0;

RESULT: 2
Description: globulin-10 - maize
Species: Zea mays (maize)
C.Species: Zea mays (maize)
N.Altername: globulin-1L
C.Species: Zea mays (maize)
C.Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 24-Nov-1999
C.Accession: B53234; S21823
R.Belanger, F.C.; Kriz, A.L.
Genetics 129, 863-872, 1991
A.Title: Molecular basis for allelic polymorphism of the maize Globulin-1 gene.
A.Reference number: A33234; MUID:92007077
A.Residues: 1-582 <BEL>
A.Experimentl source: Inbred line W04A6
A.Note: sequence extracted from NCBI backbone (NCBIP:71285)

C.Genetics:

A.Gene: Glb1-L

A.Introns: 167/1; 225/3; 252/3; 349/3

C.Superfamily: glycinin

myosin X - mouse
N-type calcium channel
hypothetical protein
prosome protease
voltage-dependent
hypothetical protein
protamine P2 precursor
hypothetical protein
repatin - mouse
hypothetical protein
homocytic protein B
DNAJ protein homolog
legumin A2 precursors
hypothetical protein

Query Match 100.0%; Score 350; DB 2; Length 582;
 Best Local Similarity 99.9%; Pred. No. 2 5e-28;
 Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
 S21825 vicilin-like storage protein Glb1-S, embryo - maize
 C;Species: Zea mays (maize)
 C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 11-Jan-2000
 C;Accession: S21825 submitted to the EMBL Data Library, April 1991
 A;Reference number: S21823
 A;Accession: S21825
 A;Molecule type: DNA
 A;Residues: 1-540 <KRI>
 C;Genetics:
 A;Gene: Glb1-S
 A;Status: preliminary
 A;Cross-references: EMBL:X59084; NID:92285; PIDN:CAA41810.1; PID:92287
 A;Introns: 170/1; 195/2; 222/2; 319/2
 C;Superfamily: glycinin

Query Match 98.9%; Score 346; DB 2; Length 540;
 Best Local Similarity 98.9%; Pred. No. 6e-28;
 Matches 59; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 60
Db 25 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 84

RESULT 4
 A53234 globulin-1S, GLB1S - maize
 C;Species: Zea mays (maize)
 C;Accession: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 11-Jan-2000
 C;Accession: A53234; A43642
 R;Belanger, F.C.; Kriz, A.L.
 Genetics 129, 863-872, 1991
 A;Title: Molecular basis for allelic polymorphism of the maize Globulin-1 gene.
 A;Reference number: A53234; MUID:92090707
 A;Accession: A53234
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-573 <BEL>
 A;Experimental source: inbred line Va 26
 A;Note: sequence extracted from NCBI backbone (NCBIN:71280, NCBIPI:71284)
 R;Kriz, A.L.
 Biochem. Genet. 27, 239-251, 1989
 A;Title: Characterization of embryo globulins encoded by the maize Glb genes.
 A;Reference number: A43642; MUID:89374022
 A;Accession: A43642
 A;Status: preliminary
 A;Molecule type: protein
 A;Residues: 87-100 <KRI>
 C;Superfamily: glycinin

Query Match 98.9%; Score 346; DB 2; Length 573;
 Best Local Similarity 98.9%; Pred. No. 6 3e-28;
 Matches 59; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 60
Db 25 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 84

RESULT 5
 T02258 globulin1 - maize
 C;Species: Zea mays (maize)
 C;Accession: T02258 submitted to the EMBL Data Library, May 1995
 A;Description: Nucleotide sequence analysis of a novel globulin null allele from the R;Bhattamaki, D.; Kriz, A.L.
 A;Reference number: 2714643
 A;Accession: T02258
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Residues: 1-407 <BH>
 A;Cross-references: EMBL:U28017; NID:9927238; PIDN:AAB60295.1; PID:9927239
 C;Genetics:
 A;Gene: Glb1
 A;Introns: 168/1; 226/3; 254/1; 351/1

Query Match 97.7%; Score 342; DB 2; Length 407;
 Best Local Similarity 96.7%; Pred. No. 1 2e-21;
 Matches 58; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 60
Db 25 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 84

RESULT 6
 T01662 globulin-1 - maize (fragment)
 C;Species: Zea mays (maize)
 C;Date: 19-Feb-1999 #sequence_revision 19-Feb-1999 #text_change 11-Jan-2000
 C;Accession: T01662
 R;Hilton, H.; Gault, B.S.
 Genetics 150, 863-872, 1998
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Accession: T01662
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Title: Speciation and domestication in maize and its wild relatives: evidence from A;Residue: 1-235 <HL>
 A;Cross-references: EMBL:AF064222; NID:93414836; PIDN: AAC31465.1; PID:93414837
 A;Experimental source: subspecies parviglumis
 C;Genetics:
 A;Introns: 166/1; 224/3
 C;Superfamily: glycinin

Query Match 86.6%; Score 303; DB 2; Length 236;
 Best Local Similarity 88.3%; Pred. No. 6 8e-24;
 Matches 53; Conservative 1; Mismatches 0; Indels 6; Gaps 1;

QY 1 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 60
Db 25 EDDNNHHGGHKGSGQCVRRCEDRPWHORPRLQCREERERKQERSHEADRSSEGSS 78

RESULT 7
 S35221 globulin Beg1 precursor - barley
 C;Species: Hordeum vulgare (barley)
 C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 21-Jul-2000
 C;Accession: S35221
 R;Heck, G.R.; Chamberlain, A.K.; Ho, T.H.D.
 Mol. Gen. Genet. 239, 209-218, 1993
 A;Title: Barley embryo globulin 1 gene, Beg1: characterization of cDNA, chromosome ma
 A;Reference number: S35221; MUID:9287988
 A;Accession: S35221
 A;Molecule type: mRNA

A;Cross-references: EMBL: M64372; NID: g167003; PIDN: AAA32936.1; PID: g167004
 C;Genetics:
 A;Gene: Beg1
 A;Map position: 4
 C;Superfamily: glycoprotein
 C;Keywords: glycoprotein
 F;174-190/Product: globulin Regl #status predicted <MAT>

RESULT 8
 Query Match 37.0%; Score 129.5; DB 2; Length 637;
 Best Local Similarity 37.9%; Pred. No. 6.4e-06;
 Matches 22; Conservative 13; Mismatches 18; Indels 5; Gaps 2;
 QY 2 DDDNHMHGGHKGSGQCVRRC-EDPRWHQRPCLEOCREEREKRSRHEADDSSGEG 58
 ||| |||| |::| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 Db 30 DDEDRRGCHSLQCYQCRQERPRYSHARCVQECRQDQ---QQHGRHQEEEQGRC 83

 R;Barlow, K.
 submitted to the EMBL Data Library, March 1997
 A;Reference number: Z19665
 A;Accession: T23056
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Molecule type: DNA
 A;Residues: 1-1465 <WIL>
 A;Cross-references: EMBL: Z29270; PIDN: CAB07481.1; GSPDB: GN00019; CESP: H06001.2
 A;Experimental source: clone H06001
 C;Genetics:
 A;Gene: CESP: H06001.2
 A;Map position: 1
 A;Introns: 44/1; 1/1/3; 377/3; 494/3; 1046/2; 1099/3; 1242/3; 1298/1
 C;Superfamily: CHD-1 protein; chromobox homology

RESULT 9
 S0398 Query Match 27.6%; Score 96.5; DB 2; Length 1465;
 Best Local Similarity 36.8%; Pred. No. 0.0299; Matches 21; Conservative 10; Mismatches 15; Indels 11; Gaps 1;
 A;Species: Caenorhabditis elegans
 C;Date: 15-Oct-1995 #sequence_revision 30-Jun-1995 #text_change 05-Nov-1999
 C;Accession: A8133
 R;Zahler, A.M.; Neugebauer, K.M.; Stolk, J.A.; Roth, M.B.
 Mol. Cell. Biol. 13, 4023-4028, 1993.
 A;Title: Human SR proteins and isolation of a cDNA encoding SRP75.
 A;Reference number: A8133; MUID: 93309435
 A;Accession: A8133
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Residues: 1-194 <WIL>
 A;Cross-references: GB: L14076; NID: g307437; PIDN: AAA36649.1; PID: g307438
 A;Note: parts of this sequence were confirmed by peptide sequencing
 C;Superfamily: unassigned ribonucleoprotein repeat-containing proteins; ribonucleoprotein
 C;Keywords: phosphoprotein; pre-mRNA splicing
 F;3-5' domain: ribonucleoprotein repeat homology <RRM3>
 F;105-167/domain: ribonucleoprotein repeat homology <RRM2>

RESULT 10
 T24856 Query Match 22.3%; Score 78; DB 2; Length 494;
 Best Local Similarity 36.5%; Pred. No. 0.86; Matches 19; Conservative 7; Mismatches 24; Indels 2; Gaps 1;
 A;Species: Caenorhabditis elegans
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 29-Oct-1999
 C;Accession: T24866; T25274
 R;McMurray, A.
 submitted to the EMBL Data Library, October 1996
 A;Reference number: Z19944
 A;Accession: T24866
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Molecule type: DNA
 A;Residues: 1-3971 <WIL>
 A;Cross-references: EMBL: Z81120; PIDN: CAB03350.1; GSPDB: GN00021; CESP: T12D8.9
 A;Experimental source: clone T12D8
 R;Gardner, A.
 submitted to the EMBL Data Library, December 1996
 A;Reference number: Z20008
 A;Accession: T25274
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Molecule type: DNA
 A;Residues: 1-971 <WIL>
 A;Cross-references: EMBL: Z83241; PIDN: CAB05819.1; GSPDB: GN00021; CESP: T12D8.9
 A;Experimental source: clone T25C8
 C;Genetics:
 A;Gene: CESP: T12D8.9
 A;Map position: 3
 A;Introns: 148/2; 929/1

RESULT 11
 S0398 Query Match 21.1%; Score 74; DB 2; Length 971;
 Best Local Similarity 30.0%; Pred. No. 3.9; Matches 15; Conservative 8; Mismatches 17; Indels 10; Gaps 1;
 A;Species: Gossypium hirsutum (upland cotton)
 C;Accession: S06398
 C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 30-Sep-1993
 R;Chian, C.A.; Borroto, K.; Kamalay, J.A.; Dure III, L.
 Plant Mol. Biol. 9, 533-546, 1987
 A;Title: Developmental biochemistry of cottonseed embryogenesis and germination. XIX. Se
 A;Reference number: S06398
 A;Accession: S06398
 A;Status: not compared with conceptual translation
 A;Molecule type: DNA
 A;Residues: 1-605 <CHL>
 C;Superfamily: glycinin
 F;1-24/605/product: alpha-globulin type A #status predicted <SIG>

RESULT 12
 S0398 Query Match 23.3%; Score 81.5; DB 2; Length 605;
 Best Local Similarity 32.7%; Pred. No. 0.45; Matches 17; Conservative 15; Mismatches 11; Indels 9; Gaps 3;
 A;Species: Gossypium hirsutum (upland cotton)
 C;Accession: S06398
 C;Date: 31-Mar-1990 #sequence_revision 31-Mar-1990 #text_change 30-Sep-1993
 R;Chian, C.A.; Borroto, K.; Kamalay, J.A.; Dure III, L.
 Plant Mol. Biol. 9, 533-546, 1987
 A;Title: Developmental biochemistry of cottonseed embryogenesis and germination. XIX. Se
 A;Reference number: S06398
 A;Accession: S06398
 A;Status: not compared with conceptual translation
 A;Molecule type: DNA
 A;Residues: 1-605 <CHL>
 C;Superfamily: glycinin
 F;1-24/605/product: alpha-globulin type A #status predicted <MAT>

